

Digital works protecting system

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Inventor: MAKOTO TATEHAYASHI (JP); JO NAKAMURA (JP); SHUNJI HARADA (JP)
Applicant: MATSUSHITA ELECTRIC IND CO LTD (JP)
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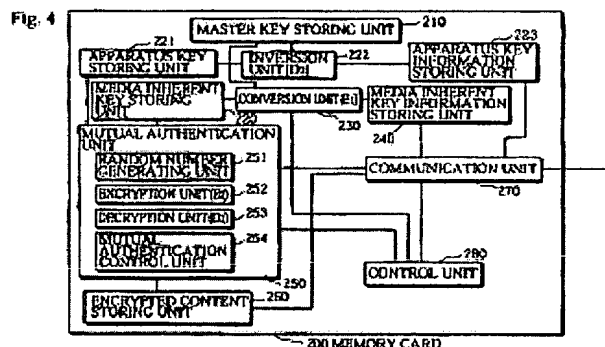
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The media inherent key storing unit 220 prestores an inherent key K_i , the conversion unit 230 generates an encrypted inherent key J_i from the inherent key read from the media inherent key storing unit 220, the random number generating unit 331 generates a random number R_1 , the encryption unit 252 generates an encrypted random number S_1 , the decryption unit 333 generates a random number $R'1$ from the encrypted random number R_1 , and the mutual authentication control unit 334 compares the random number $R'1$ with the random number R_1 and, if the random number $R'1$ matches the random number R_1 , judges that the memory card 200 is an authorized device. If the memory card 200 and the memory card writer have successfully authenticated each other, the memory card writer encrypts a content using a decrypted inherent key. If the memory card 200 and the memory card reader have successfully authenticated each other, the memory card reader decrypts an encrypted content using the decrypted inherent key.



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[71]申请人 松下电器产业株式会社

地址 日本大阪府

[72]发明人 馆林诚 中村穰 原田俊治

小塚雅之

[74]专利代理机构 中国专利代理(香港)有限公司

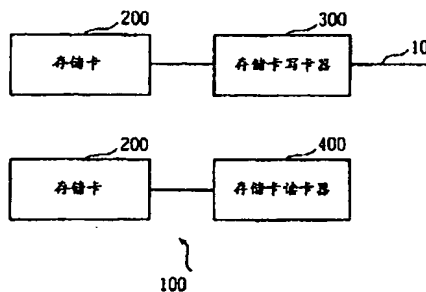
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[54]发明名称 数字作品保护系统

[57]摘要

媒体固有密钥记录部 220 预先存储一个固有密钥 K_i , 变换部 230 从读出的固有密钥 K_i 生成加密固有密钥 J_i , 随机数发生部 331 生成随机数 R_1 , 加密部 252 从随机数 R_1 生成加密随机数 S_1 , 解码部 333 从加密随机数 S_1 生成随机数 R'_1 , 相互认证控制部 334 把随机数 R'_1 与随机数 R_1 进行比较, 如果相一致, 就认证为存储卡 200 是正当的装置。在认证为存储卡与存储卡写卡器或者存储卡读卡器相互都是正当的装置的情况下, 存储卡写卡器或者存储卡读卡器使用解密的固有密钥对作品进行加密或者解密。



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